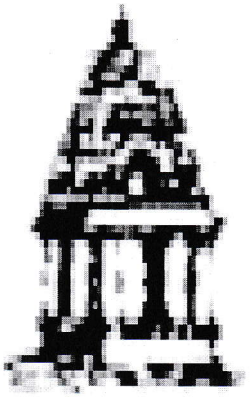
BRUHAT BANGALORE MAHANAGARA PALIKE



Asst.Executive Engineer, Shettyhalli Sub Division,

Name of Work Improvements of CC Roads in 1st, 2nd, 3rd, 4th Cross Roads Near MuthurayaSwamy Temple At Prashanth Nagar in Ward No.13, Shettyhalli Sub Division.

Est Cost:50.00 Lakhs

Bruhath Bangalore Mahanagara Palike Dasarahalli Zone

Name of Work:Improvements of CC Roads in 1st, 2nd, 3rd, 4th Cross Roads Near MuthurayaSwamy Temple At Prashanth Nagar in Ward No.13, Shettyhalli Sub Division.

					Est .Cost Rs.50.00 Lakhs				
Sl No	**Description of Items**	**Unit**	**No**	**L**	**B**	**D**	**Qty**	**Rate**	**Amount**
1	KSRRB 300-3. Earthwork excavation by manual means in ordinary soil invoiving in average horizontal throw up to 2m & an average lift upto 1.5m , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. Page No. 142/ Item No. 19.1/ PWD SR 2016-17								
	1st Cross	**Cum**	1	237.00	0.90	0.50	106.65		
	2nd Cross		1	237.00	0.90	0.50	106.65		
	3rd Cross		1	165.00	0.90	0.50	74.25		
	Pipeline To 2nd Cross		1	30.00	4.00	0.50	60.00		
	17th C Cross		1	35.00	0.90	0.50	15.75		
	1st Cross		2	237.00	0.45	0.40	85.32		
	2nd Cross		2	237.00	0.45	0.40	85.32		
	3rd Cross		2	165.00	0.45	0.40	59.40		
	Pipeline To 2nd Cross		2	30.00	4.00	0.40	96.00		
	17th C Cross		2	35.00	0.45	0.40	12.60		
	1st Cross		2	237.00	0.45	0.30	63.99		
	2nd Cross		2	237.00	0.45	0.30	63.99		
	3rd Cross		2	165.00	0.45	0.30	44.55		
	17th C Cross		2	35.00	0.45	0.30	9.45		
				3.00			**883.92**	**172.57**	**152538.07**
2	KSSRB M400-7 Construction Of granular sub -base by providing coarse graded cushed stone aggregates of granite / trap / basalt material speading in uniform layers with motor grader on prepared surface,mixing by mix in place method with rotavator at OMC,and compacting with vibratory roller to achive the desired density. complete asper specification. **By mix in place method for Grading II Material** KSSRB Page No 156 Item No 20.6 and 20.6.3								
	1st Cross	**Cum**	1	237.00	0.90	0.20	42.66		
	2nd Cross		1	237.00	0.90	0.20	42.66		
	3rd Cross		1	165.00	0.90	0.20	29.70		
	Pipeline To 2nd Cross		1	30.00	4.00	0.20	24.00		
	17th C Cross		1	35.00	0.90	0.20	6.30		
	1st Cross		2	237.00	0.45	0.15	32.00		
	2nd Cross		2	237.00	0.45	0.15	32.00		
	3rd Cross		2	237.00	0.45	0.15	32.00		
	17th C Cross		2	165.00	0.45	0.15	22.28		
							263.58	**1582.58**	**417136.44**
3	KSSRB M600-1 Construction Of **dry lean cement concrete mix CC1:5:10** With OPC cement @160kgs,with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum sub-base over a prepared sub-grade with (course and fine aggregate conferming to IS:383) aggregate cement ratio not to exceed 15:1. Aggregate gardation after blending to br as per Table 600-1, cement content not to be less than 160kg/cum, optimum moisture content to be less than 10Mpa at 7days, mixxed in a batching plant, transported to site, laid with a paver with electronic sensor, comacting with 8-10 tonnes vibratory roller,finishing and curing complete asper Specification KSSRB:Page No 176, Item No 22.2 and 22.2.1								
	1st Cross	**Cum**	1	237.00	0.90	0.15	32.00		
	2nd Cross		1	237.00	0.90	0.15	32.00		
	3rd Cross		1	165.00	0.90	0.15	22.28		
	Pipeline To 2nd Cross		1	30.00	4.00	0.15	18.00		
	17th C Cross		1	35.00	0.90	0.15	4.73		

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	1st Cross		2	237.00	0.45	0.10	21.33		
	2nd Cross		2	237.00	0.45	0.10	21.33		
	3rd Cross		2	165.00	0.45	0.10	14.85		
	17th C Cross		2	35.00	0.45	0.10	3.15		
							169.65	**3986.66**	**676336.87**
4	Cement concrete pavement. Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) & spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, including curing, finishing to lines and grades as per drawing complete as per specifications.**M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) Page o 177 Item No 22.6.1**									
	1st Cross	**Cum**	1	237.00	5.00	0.15	177.75		
	2nd Cross		1	237.00	4.60	0.15	163.53		
	3rd Cross		1	165.00	5.00	0.15	123.75		
	Pipeline To 2nd Cross		1	30.00	4.80	0.15	21.60		
	17th C Cross		1	35.00	4.80	0.15	25.20		
							511.83	**6217.96**	**3182538.47**
5	Providing groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. for concrete pavement Page No.178/ Item No.22.8, 22.8.1/ PWD SR 2016-17								
	1st Cross	**Rmt**	1	5.00	5.00		25.00		
	2nd Cross		1	4.00	4.60		18.40		
	3rd Cross		1	4.00	5.00		20.00		
	Pipeline To 2nd Cross		1	8.00	4.80		38.40		
			1	2.00	4.80		9.60		
							111.40	**121.90**	**13579.66**
6	Providing & laying reinforeced cement precast slabs of mix CC 1:11/2:3 using 20mm & down size graded Granite metal using HYSD 10mm dia steel @ 100mm c/c both ways & Complete as per specfications.								
	Missing Slabs	**Sqm**	190	0.60		0.75	85.50		
							85.50	**1680.00**	**143640.00**
						Sub Total			**4585769.51**
6	**Miscellaneous and Other Charges**								**412719.26**
7	**Rounding off**								**1511.24**
						Grand Total			**5000000.00**
	(Rupees Fifty Lakhs Only)								

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary
2 The Estimate is prepared as per the PWD SR 2016-17
3 The Provision made in estimate are adequate and essential
4 This area comes under BBMP limits.
5 This work is not included in any other estimate.

Asst Engineer
Ward No-13

Asst Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

ಸಂ. JC/D/AS/PM/10/1647 ದಿನಾಂಕ : 28/3/17

ರೂ. Rs. 50.00 Lakhs Only

(Rs. Fifty Lakhs Only)

ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಜಂಟಿ ಆಯುಕ್ತರು

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ಸಂ. CE/TS/12/17-18 ದಿನಾಂಕ : 13/04/2017

ರೂ. Rs 50.00 lakhs only/-

Rs. Fifty Lakhs only/-

ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ

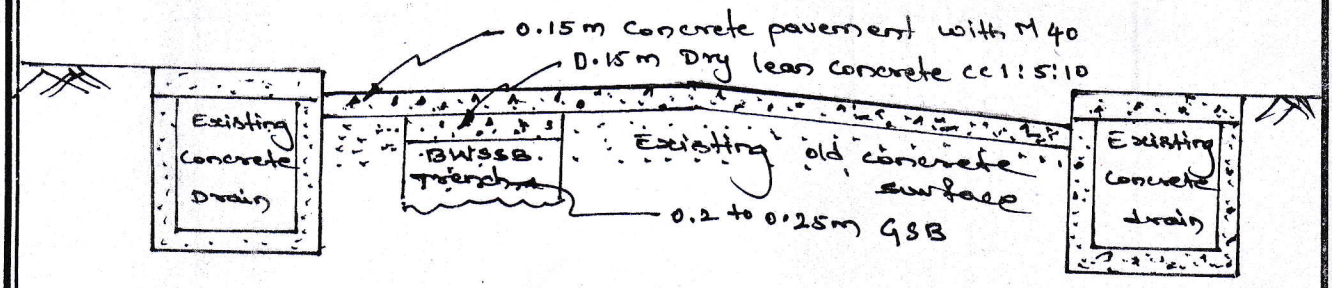
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು

ಮುಖ್ಯ ಅಭಿಯಂತರರು

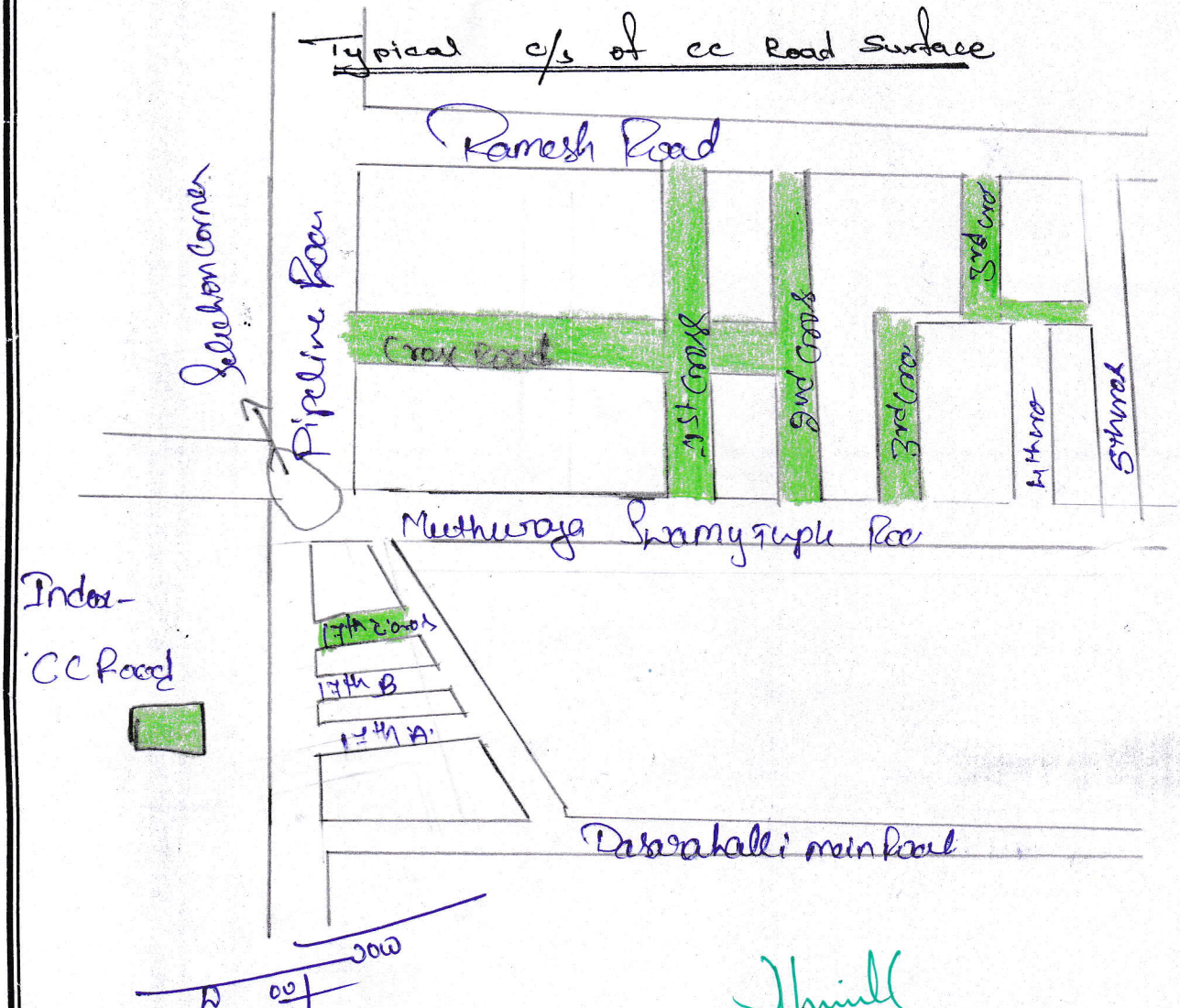
ಬಿ.ಬಿ.ಎಂ.ಪಿ.

ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

Name of Work Improvements of cc Roads in 1st, 2nd 3rd, 4th Cross Roads Near Muthuraya Swamy Temple at Prashanth Nagar in Ward No. 13, Shettyhalli Sub-Division.


Carriage way 3 to 4.5m
0.15m Concrete pavement with M40
0.15m Dry lean concrete cc 1:5:10
Existing Concrete Drain
BWSSB. Trench
Existing old concrete surface
0.2 to 0.25m GSB
Existing Concrete drain

Typical c/s of cc Road Surface



Asst.Engineer
Ward No.13

Asst.Executive Engineer
Shettyhalli Sub Division, Dasarahalli Zone
BBMP Bangalore.